a 3Com company

H3C MSR 50 Series Router

Telecommunications & Certification Manual

www.3Com.com
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European Declaration of Conformity

A signed copy of the European Declaration of Conformity for the MSR 50 series of routers and associated modules and accessories can be downloaded from:

MSR 50 series:
http://support.3com.com/doc/MSR50_series_EU_DOC.pdf

The following products* comply with the European Low Voltage Directive 2006/95/EC and EMC Directive 2004/108/EC.

Smart Interface Cards (SICs)		
SIC-1FEA 1-Port 10/100 SIC RT-SIC-1FEA	SIC-4FSW 4-port 10/100 SIC RT-SIC-4FSW	DSIC-9FSW 9-port 10/100 DSIC RT-DSIC-9FSW
SIC-1GEC 1-port 10/100/1000 SIC RT-SIC-1GEC		
Flexible Interface Cards (FICs)		
2FE 2-port 10/100 FIC RT-FIC-2FE	1GBE 1-port 10/100/1000 FIC RT-FIC-1GBE	1GEF 1-port 1000 Fiber FIC RT-FIC-1GEF
16FSW 16-port 10/100 FIC RT-FIC-16FSW	16FSWP 16-port 10/100 PoE FIC RT-FIC-16FSW-POE	24FSW 24-port 10/100 DFIC RT-DFIC-24FSW
24FSWP 24-port 10/100 PoE DFIC RT-DFIC-24FSW-POE	OSM OSM FIC, 80G HD, 512M Mem. 256M CF Card RT-FIC-OSM-3C	OSM OSM FIC, 80G HD, 1G Mem. 256M CF Card RT-FIC-OSM-A-3C
Others		
ESM SNDE SNDE Module RT-ESM-SNDE	ESM ANDE ANDE Module RT-ESM-ANDE	VPM8 8-Chnl. Voice Processor RT-VPM8
VPM16 16-Chnl. Voice Processor RT-VPM16	VPM24 24-Chnl. Voice Processor RT-VPM24	VPM32 32-Chnl. Voice Processor RT-VPM32
VCPM Module RT-VCPM	MPUF MSR 50 Processor Module RT-MPUF	MSCA MSR 50 Multi-Service Module RT-MSCA
PSR350 MSR 50 Power Supply – AC AC-PSR350	FAN-3U MSR 50-40 Fan Tray RT-FAN-3U	FAN-4U MSR 50-60 Fan Tray RT-FAN-4U

The following* products comply with the European Radio and Telecommunication Terminal Equipment Directive 1999/5/EC:

Equipment	***For Connection to***	***Equipment***	***For connection to***
Router Chassis			
MSR 50-40 RT-MSR5040-AC	Dependant on installed modules	MSR 50-60 RT-MSR5060-AC	Dependant on installed modules

Equipment	*For Connection to*	*Equipment*	*For connection to*
Smart Interface Cards (SICs)			
SIC-1SAE 1-port Enhanced Serial SIC RT-SIC-1SAE	Serial WAN interfaces (X.21, V.24, V.35)	SIC-1ADSL 1-port ADSL2+ SIC RT-SIC-1ADSL	ADSL / 2 / 2+ over POTS interfaces
SIC-1FT1 1-port Fractional T1 SIC RT-SIC-1FT1	T1 (1.544Mbps and fractional) leased lines	SIC-1E1-F 1-port Fractional E1 SIC RT-SIC-1E1-F	E1 (2.048Mbps and fractional) leased lines
SIC-1AM 1-port Analog Modem SIC RT-SIC-1AM	POTS interfaces	SIC-2FXS 2-port FXS SIC RT-SIC-2FXS	POTS subscriber equipment
SIC-2FXO 2-port FXO SIC RT-SIC-2FXO	POTS interfaces	SIC-1VE1 1-port Voice E1 SIC RT-SIC-1VE1	E1 (2.048Mbps) leased lines
SIC-1VT1 1-port Voice T1 SIC RT-SIC-1VT1	T1 (1.544Mbps) leased lines	SIC-1BS 1-Port ISDN-S/T SIC RT-SIC-1BS	ISDN Basic Rate S/T interfaces
SIC-1BU 1-port ISDN-U SIC RT-SIC-1BU	ISDN Basic Rate U interfaces		
Flexible Interface Cards (FICs)			
1VE1 1-port Voice E1 FIC RT-FIC-1VE1	E1 (2.048Mbps) leased lines	1VT1 1-port Voice T1 FIC RT-FIC-1VT1	T1 (1.544Mbps) leased lines
2VE1 2-port Voice E1 FIC RT-FIC-2VE1	E1 (2.048Mbps) leased lines	2VT1 2-port Voice T1 FIC RT-FIC-2VT1	T1 (1.544Mbps) leased lines
4FXS 4-port FXS FIC RT-FIC-4FXS	POTS subscriber equipment	4FXO 4-port FXO FIC RT-FIC-4FXO	POTS interfaces
4SAE 4-port Enhanced serial FIC RT-FIC-4SAE	Serial WAN interfaces (X.21, V.24, V.35)	8SAE 8-port Enhanced serial FIC RT-FIC-8SAE	Serial WAN interfaces (X.21, V.24, V.35)
4E1 4-port CE1/PRI FIC RT-FIC-4E1	ISDN Primary Rate Interfaces (2.048Mbps) and E1 leased lines	8E1 8-port CE1/PRI FIC RT-FIC-8E1(120)	ISDN Primary Rate Interfaces (2.048Mbps) and E1 leased lines
4E1-F 4-port Fractional E1 FIC RT-FIC-4E1-F	E1 (2.048Mbps and fractional) leased lines	4T1 4-port FT1/CT1 PRI FIC RT-FIC-4T1	ISDN Primary Rate Interfaces (1.544Mbps) and T1 leased lines
4T1-F 4-port Fractional T1 FIC RT-FIC-4T1-F	T1 (1.544Mbps and fractional) leased lines	4BSE 4-port ISDN-S/T FIC RT-FIC-4BSE	ISDN Basic Rate S/T interfaces
IMA-4E1 4-port E1 IMA FIC RT-FIC-4E1(120)	E1 (2.048Mbps) leased lines	IMA-4T1 4-port T1 IMA FIC RT-FIC-4T1	T1 (1.544Mbps) leased lines
1CE3 1-port FE3/CE3 FIC RT-FIC-1CE3	E3 leased lines (34.368Mbps)	1CT3 1-port FT3/CT3 FIC RT-FIC-1CT3	E3 leased lines (34.368Mbps)
1AE3 1-port E3 ATM FIC RT-FIC-1AE3	E3 leased lines (34.368Mbps)	1AT3 1-port T3 ATM FIC RT-FIC-1AT3	T3 (44.736Mbps) leased lines
1POS 1-port OC-3 POS FIC RT-FIC-1POS	OC-3 interfaces (155Mbps)	1ATM-OC3MM 1-port OC-3 ATM MM FIC RT-FIC-1ATM-OC3MM	SDH STM-1 or SONET OC-3 interfaces (155Mbps)

Equipment	*For Connection to*	*Equipment*	*For connection to*
Flexible Interface Cards (FICs) contd.			
1ATM-OC3SM 1-port OC-3 ATM SM FIC RT-FIC-1ATM-OC3SM	SDH STM-1 or SONET OC-3 interfaces (155Mbps)	1ATM-OC3SM 1-port OC-3 ATM SML FIC RT-FIC-1ATM-OC3SML	SDH STM-1 or SONET OC-3 interfaces (155Mbps)

Intended use: Data router with WAN and LAN interfaces

RTTE Directive declaration statements:

Česky [Czech]	3Com Coporation tímto prohlašuje, že tento Router je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]	Undertegnede 3Com Corporation erklærer herved, at følgende udstyr Router overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]	Hiermit erklärt 3Com Corporation, dass sich das Gerät Router in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]	Käesolevaga kinnitab 3Com Corporation seadme Router vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English	Hereby, 3Com Corporation, declares that this Router is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]	Por medio de la presente 3Com Corporation declara que el Router cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ 3Com Corporation ΔΗΛΩΝΕΙ ΟΤΙ Router ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.
Français [French]	Par la présente 3Com Corporation déclare que l'appareil Router est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]	Con la presente 3Com Corporation dichiara che questo Router è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Latviski [Latvian]	Ar šo 3Com Corporation deklarē, ka Router atbilst Direktīvas 1999/5/EK būtiskajām prasībām un citiem ar to saistītajiem noteikumiem.
Lietuvių [Lithuanian]	Šiuo 3Com Corporation deklaruoja, kad šis Router atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]	Hierbij verklaart 3Com Corporation dat het toestel Router in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]	Hawnhekk, 3Com Corporation, jiddikjara li dan Router jikkonforma mal-ħtiġijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Magyar [Hungarian]	Alulírott, 3Com Corporation nyilatkozom, hogy a Router megfelel a vonatkozó alapvetõ követelményeknek és az 1999/5/EC irányelv egyéb elõírásainak.
Polski [Polish]	Niniejszym 3Com Corporation oświadcza, że Router jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 1999/5/EC.
Português [Portuguese]	3Com Corporation declara que este Router está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]	3Com Corporation izjavlja, da je ta Router v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]	3Com Corporation týmto vyhlasuje, že Router spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]	3Com Corporation vakuuttaa täten että Router tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]	Härmed intygar 3Com Corporation att denna Router står I överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.
Íslenska [Icelandic]	Hér með lýsir 3Com Corporation yfir því að Router er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC.
Norsk [Norwegian]	3Com Corporation erklærer herved at utstyret Router er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.

* For the most up to date list of products please download a copy of the European Declaration of Conformity.

USA – FCC Part 68 Compliance

The products listed below comply with Part 68 of the FCC Rules and the requirements adopted by ACTA. On the bottom of this equipment is a label that contains, among other information, a product identifier in the format US:AAAEQ##TXXXX. If requested this number must be provided to the telephone company.

Equipment	USOC (Universal Service Ordering Codes)	SOC (Service Order Codes)	FIC (Facility Interface Codes)
RT-SIC-1FT1 RT-SIC-1VT1 RT-FIC-4T1 RT-FIC-4T1-F RT-FIC-1VT1 RT-FIC-2VT1 RT-FIC-IMA-4T1	RJ48C	6.0N	04DU9.BN, 04DU9.DN, 04DU9.1KN, 04DU9.1SN
RT-SIC-1AM RT-SIC-2FXS RT-SIC-2FXO RT-FIC-4FXS RT-FIC-4FXO	RJ11C	9.0F	METALLIC
RT-SIC-1ADSL	RJ11C	9.0Y	METALLIC
RT-SIC-1BU	RJ41	6.0N	02IS5
RT-FIC-4E&M	RJ-2EX RJ-2FX RJ2-GX RJ2-HX	9.0F	TL11E TL12E TL31E TL32E

This equipment contains FCC compliant modular jacks. It is designed to be connected to the telephone network or premises wiring using compatible modular plugs and cabling that comply with the requirements of Part 68 rules.

If this equipment causes harm to the telephone network, the telephone company will notify you in advance that temporary discontinuance of service may be required. But if advance notice isn't practical, the telephone company will notify the customer as soon as possible. Also, you will be advised of your right to file a complaint with the FCC if you believe it is necessary.

The telephone company may make changes in its facilities, equipment, operations or procedures that could affect the operation of the equipment. If this happens the telephone company will provide advance notice in order for you to make necessary modifications to maintain uninterrupted service.

For repair or warranty information please contact 3Com Corporation. See “OBTAINING SUPPORT FOR YOUR PRODUCT” in your Installation Manual. If the equipment is causing harm to the telephone network the telephone company may request that you disconnect the equipment until the problem is resolved.

Only the manufacturer or its authorized agents can make repairs to this equipment. In the event that this equipment requires service, contact your equipment vendor or the manufacturer.
This equipment does not contain any parts that can be repaired by the user.

Connection to party line service is subject to state tariffs. Contact the state public utility commission, public service commission or corporation commission for information.

If your home has specially wired alarm equipment connected to the telephone line, ensure the installation of this equipment does not disable your alarm equipment. If you have questions about what will disable alarm equipment, consult your telephone company or a qualified installer.

California Code of Regulations, Title 22, Chapter 33 - Best Management Practices for Perchlorate Materials

Perchlorate Material - special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate

Canada – Industry Canada Compliance

CS-03 Compliance

The products listed below meet the applicable Industry Canada technical specifications.

Smart Interface Cards (SICs)		
SIC-1ADSL 1-port ADSL2+ SIC RT-SIC-1ADSL	SIC-1FT1 1-port Fractional T1 SIC RT-SIC-1FT1	SIC-1AM 1-port Analog Modem SIC RT-SIC-1AM
SIC-2FXS 2-port FXS SIC RT-SIC-2FXS	SIC-2FXO 2-port FXO SIC RT-SIC-2FXO	SIC-1VT1 1-port Voice T1 SIC RT-SIC-1VT1
SIC-1BU 1-port ISDN-U SIC RT-SIC-1BU		
Flexible Interface Cards (FICs)		
1VT1 1-port Voice T1 FIC RT-FIC-1VT1	2VT1 2-port Voice T1 FIC RT-FIC-2VT1	4FXS 4-port FXS FIC RT-FIC-4FXS
4FXO 4-port FXO FIC RT-FIC-4FXO	4E&M 4-port E&M FIC RT-FIC-4EM	4T1 4-port FT1/CT1 PRI FIC RT-FIC-4T1
4T1-F 4-port Fractional T1 FIC RT-FIC-4T1-F	IMA-4T1 4-port T1 IMA FIC RT-FIC-4T1	

NOTICE: The Industry Canada (IC) label identifies certified equipment. This certification means that the equipment meets the telecommunications network protective, operational, and safety requirements as prescribed in the appropriate Terminal Equipment Technical Requirements document(s). The department does not guarantee the equipment will work to the user's satisfaction.

Before installing this equipment, users should ensure that it is permissible to be connected to the facilities of the local telecommunications company. The equipment must also be installed using an acceptable method of connection. The user should be aware that compliance with the above conditions might not prevent degradation of service in some situations.

Repairs to certified equipment should be coordinated by a representative designated by the supplier. Any repairs or alterations made by the user to this equipment, or equipment malfunctions, may give the telecommunications company cause to request the user to disconnect the equipment.
This equipment does not contain any parts that can be repaired by the user.

Users should ensure for their own protection that the electrical ground connections of the power utility, telephone lines, and internal metallic water pipe system, if present, are connected together. This precaution may be particularly important in rural areas. Caution: Users should not attempt to make such connections themselves, but should contact the appropriate electrical inspection authority or electrician, as appropriate.

The Ringer Equivalence Number (REN) is an indication of the maximum number of devices allowed to be connected to a telephone interface. The termination on an interface may consist of any combination of devices subject only to the requirement that the sum of the RENs of all the devices does not exceed five.